

## Phase 4 Practice Project 1

ClassTests.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Security.Claims;
using System.Text;
using System.Threading.Tasks;
using NUnit.Framework;
using School;

namespace School.Tests
{
    [TestFixture]
    public class ClassTests
    {
        [Test]
        public void TestClassName()
        {
            // Arrange
            Class myClass = new Class();
            myClass.Name = "Math";

            // Act
            string className = myClass.Name;

            // Assert
```

```
        Assert.AreEqual("Math", className);
    }

    [Test]
    public void TestClassId()
    {
        // Arrange
        Class myClass = new Class();
        myClass.Id = 1;

        // Act
        int classId = myClass.Id;

        // Assert
        Assert.AreEqual(1, classId);
    }
}
```

StudentTests.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

```
namespace School.Tests
{
    [TestFixture]
    public class StudentTests
    {
        [Test]
        public void TestStudentName()
        {
            // Arrange
            Student student = new Student();
            student.Name = "John Doe";

            // Act
            string studentName = student.Name;

            // Assert
            Assert.AreEqual("John Doe", studentName);
        }

        [Test]
        public void TestStudentAddress()
        {
            // Arrange
            Student student = new Student();
            student.Address = "123 Main St";

            // Act
            string studentAddress = student.Address;
```

```
        // Assert
        Assert.AreEqual("123 Main St", studentAddress);
    }
}
}
```

## SubjectTests.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace School.Tests
{
    [TestFixture]
    public class SubjectTests
    {
        [Test]
        public void TestSubjectName()
        {
            // Arrange
            Subject subject = new Subject();
            subject.Name = "Science";
        }
    }
}
```

```
// Act
string subjectName = subject.Name;

// Assert
Assert.AreEqual("Science", subjectName);
}

[Test]
public void TestSubjectId()
{
    // Arrange
    Subject subject = new Subject();
    subject.Id = 2;

    // Act
    int subjectId = subject.Id;

    // Assert
    Assert.AreEqual(2, subjectId);
}
}
```